

Notice of Allowability

Application No.

10/034,601

Examiner

Trenton J. Roche

Applicant(s)

YUCEL, SERMET

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to communications filed 14 June 2006.
2. ☐ The allowed claim(s) is/are 1-6, 8-13, 30-43, 119-123 and 137-143 (renumbered as 1-38).
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |

EXAMINER'S AMENDMENT

1. An Examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to Applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this Examiner's amendment was given in a telephone interview with Dena VanDeVoort Ehrich, Reg. No. 57,508 on 2 August 2006.

The application has been amended as follows:

Claims 44-118 have been canceled.

Claim 1 has been amended as such:

1. (Currently amended) A computer program-embodied stored on a computer readable medium for creating knowledge-oriented software application using an object-oriented programming language, the computer program comprising:

a code segment for storing in a human readable format a set of logic details for the knowledge-oriented software application, wherein the set of logic details includes definable logic instructions;

a code segment ~~for storing a set of relation functions~~ for deriving new relations from a set of base relations together with the set of logic details and imposing rules and constraints on the base relations, wherein the new relations comprise ~~the~~ a set of relation functions including the set of logic details and providing code that accepts a predetermined number of base relations as input and

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returns derived knowledge for the knowledge-oriented software application to be generated as data representing the new relations;

a code segment for storing a definition and a set of requirements for each of the relation functions in the knowledge-oriented software application thereby creating a logical design of the knowledge-oriented software application;

a code segment for storing within an electronic device a set of user sessions for the knowledge-oriented software application, the a-logical design of the knowledge-oriented software application, and run time data for the knowledge-oriented software application; and

a code segment for dynamically assembling a set of executable components at run time using the set of user sessions and the run time data in accordance with the logical design, wherein the set of executable components converts the set of logic details and the relation functions from human readable format into code that is executable by a computer;

enabling concurrent clients to execute the knowledge-oriented software application to manipulate the knowledge stored in the electronic device.

Claim 8 has been amended as such:

8. (Currently amended) The computer program of claim 1, wherein the code segment for ~~storing a set of relation functions~~ deriving new relations further comprises an Event and an Event Handler.

Claim 30 has been amended as such:

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30. (Currently amended) A computerized system for creating a knowledge-oriented software application using an object-oriented programming language comprising:

a processor; and

a storage device comprising:

a code segment for storing in a human readable format a set of logic details for the knowledge-oriented software application, and further comprising a Thing, a Key, a Fact and a Knowledge Definition, wherein the Thing comprises an abstract base Thing class with a method for retrieving a Key of a Thing instance, further wherein the Key comprises a unique identifier, wherein the set of logic details includes definable logic instructions;

code segment for ~~storing a set of relation functions~~ for deriving new relations from a set of base relations together with the set of logic details and imposing rules and constraints on the base relations, wherein the new relations comprise ~~the~~ a set of relation functions including the set of logic details and providing code that accepts a predetermined number of base relations as input and returns derived knowledge for the knowledge-oriented software application to be generated as data representing the new relations;

code segment for storing a definition and a set of requirements for each of the relation functions in the knowledge-oriented software application thereby creating a logical design of the knowledge-oriented software application;

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a code segment for storing a set of user sessions for the knowledge-oriented software application, a the logical design of the knowledge-oriented software application, and run time data for the knowledge-oriented software application within an electronic device; and

a code segment for dynamically assembling a set of executable components at run time using the set of user sessions and the run time data in accordance with the logical design, wherein the set of executable components converts the set of logic details and the relation functions from human readable format into code that is executable by a computer;

enabling concurrent clients to execute the knowledge-oriented software application to manipulate the knowledge stored in the storage device.

The Examiner's amendment was required to more clearly define the invention and to obviate any possible rejections under 35 U.S.C. §§ 102 and 103.

Allowable Subject Matter & Examiner's Statement of Reason(s) for Allowance

2. Claims 1-6, 8-13, 30-43, 119-123 and 137-143 (renumbered as 1-38) are allowed.
3. The following is an Examiner's statement of reasons for allowance:

The closest found prior art of record, specifically, U.S. Patent 6,374,252 to Althoff et al. (hereinafter "Althoff"), taken alone or in combination, fails to teach or reasonably suggest a method and system for creating knowledge-oriented software applications in accordance with independent claim 1. Specifically, Althoff fails to teach at least "...a code segment for storing a set of relation functions for deriving new relations from a set of base relations together with the set of logic details and imposing rules and

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constraints on the base relations, wherein the new relations comprise the a set of relation functions including the set of logic details and providing code that accepts a predetermined number of base relations as input and returns derived knowledge for the knowledge-oriented software application to be generated as data representing the new relations...a code segment for dynamically assembling a set of executable components at run time using the set of user sessions and the run time data in accordance with the logical design, wherein the set of executable components converts the set of logic details and the relation functions...into code that is executable by a computer..." (claim 1). Similar limitations are recited in independent claim 30.

Instead, Althoff discloses a system for modeling, storing and querying objects in relational databases. While Althoff discloses generating SQL commands, Althoff does not teach or reasonably suggest aspects of deriving new relations from a set of base relations together with a set of logic details, and further, assembling a set of executable components which convert the logic details and relation functions into executable code.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Trenton J. Roche whose telephone number is (571) 272-3733. The examiner can normally be reached on Monday - Friday, 9:00 am - 5:30 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kakali Chaki can be reached on (571) 272-3719. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Trenton J Roche
Examiner
Art Unit 2193

TJR


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